ABSTRACT

The invention provides a micromirror for directing a beam of light. The micromirror includes a mirror plate movably coupled to a substrate and a lower reinforcement rib connected to a lower surface of the mirror plate. The lower reinforcement rib is formed in a rib trench within the substrate when at least a portion of the mirror plate is formed. The lower reinforcement rib reinforces the mirror plate to minimize mirror plate curvature. A system for directing a beam of light and a method of fabricating a reinforced micromirror is also disclosed.